

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch

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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:**Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-017551**Date Inspected:** 12-Oct-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Mr.Qiu Wen.**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** Tower and Orthotropic Box Girder (OBG)**Summary of Items Observed:**

On this day CALTRANS OSM Quality Assurance (QA) Inspector Shailesh Gaikwad was present during the times noted above for observations relative to the fabrication of the SAS Superstructure being performed by Zhenhua Port Machinery Company (ZPMC) at Changxing Island in Shanghai, China. QA observed and/or found the following:

NDT

BAY 10

This QA Inspector performed randomly Visual Inspection and Magnetic Particle Testing (MT) of approximately 15% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated a TL- 6028 (MT) report for this date. The member is identified as OBG Bike path plate. The weld designations reviewed are as follows.

BK004A6-028-021, 031, 033, 047, 050, 117, 043, 104, 106

8A - BK004A3-026-025, 026, BK004A7-026-229, 061

8C - BK004A3-026-051, 052, BK004A7-026-140, 073,

10A - BK004A4-026-014, BK004A7-026-025, 159,

BK004A7-026-222, 226, 129, 144, 227, 145,

BK004A5-026-023, 022, 058, 061, 063, 079, 080, 083

BK004A1-028-043

NDT Notification No-06929

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BAY 10

This QA Inspector performed randomly Visual Inspection and Ultrasonic Testing (UT) of approximately 10% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated a TL-6027 (UT) report for this date. The member is identified as OBG Bike path plate. The weld designations reviewed are as follows.

BK004A1-028-043, 044

NDT Notification No-06929

This QA Inspector observed the following work in progress:

BAY 10

SMAW PROCESS:

This QA Inspector observed ZPMC qualified welding personnel identified as 056364, Perform Shielded Metal Arc Welding (SMAW) on North Tower lift 5 skin E cover plate on cope hole area. Joint identified as NSD1-TL5-3E/F-1, 2. ZPMC QC Identified as Sun Tiang Liang. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-P-4113, 4114.

OBG Bike path plate FCAW process:

This QA Inspector observed ZPMC qualified welding personnel identified as 057180, 040302, Perform Flux Core Arc Welding (FCAW) on OBG bike path stringer plate to deck plate. Joint identified as BK004A4-030-040, 041. ZPMC QC Identified as Li Peng fei. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2132. For more information see below attached picture number 1.

This QA Inspector observed ZPMC qualified welding personnel identified as 053869, 052075, Perform Flux Core Arc Welding (FCAW) on OBG bike path stringer plate to deck plate. Joint identified as BK004A3-030-051, 052. ZPMC QC Identified as Li Peng fei. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2132.

Green Tagging

This QA inspector performed Visual Inspection for Green Tagging which were previously tested and accepted by ZPMC Quality Control personnel Mr. Zhang Hvang and ABF QA personnel Mr. Lu Yi Jun. The members are identified as Tower Façade plate L3-E3-(Skin A 109M W/S Façade). The green Tag number is identified as # 13518.

BAY 11

OBG Bike path plate FCAW process:

This QA Inspector observed ZPMC qualified welding personnel identified as 040759, 040704, Perform Flux Core Arc Welding (FCAW) on OBG bike path side plate. Joint identified as BK004A1-019-044. ZPMC QC Identified as Shao Hai Lang. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2231-B-U2-F. For more information see below attached picture number 2.

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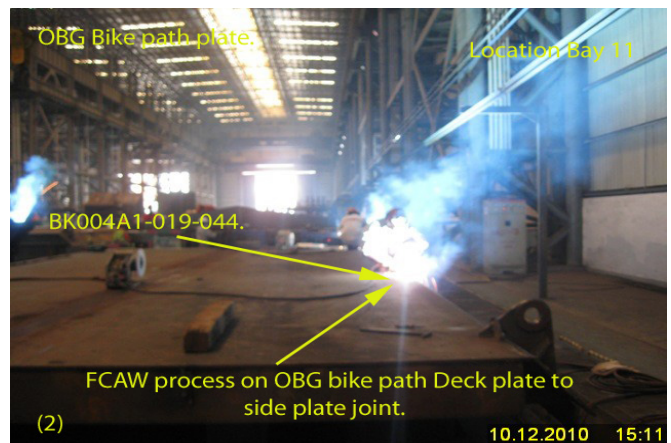
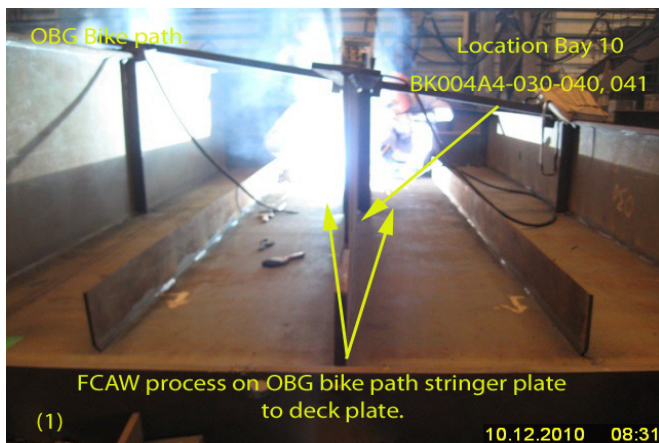
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This QA Inspector observed ZPMC qualified welding personnel identified as 049220, Perform Flux Core Arc Welding (FCAW) on OBG bike path plate. Joint identified as BK004A6-021-072, 073. ZPMC QC Identified as Shao Hai Lang. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2132.

Magnetic Particle Testing:

This QA Inspector observed ZPMC Magnetic Particle Testing Inspector, performed MT on OBG bike path plate. Bike path plate identified as BK004A1-017.

Unless otherwise noted, all work observed on this date appeared to be in general compliance with the applicable contract documents.



Summary of Conversations:

Only general conversation was held between QA and QC concerning this project.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Michael Ng Phone: 15921845703, who represents the Office of Structural Materials for your project.

Inspected By:	Gaikwad,Shailesh	Quality Assurance Inspector
Reviewed By:	Clifford,William	QA Reviewer
